Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) A multi-stack optical data storage medium (20)—for rewritable recording using a focused radiation beam (19) entering through an entrance face (16)—of the medium (20)—during recording, comprising:
 - [[-]] a substrate (1) with deposited on a side thereof:
- [[-]] a first recording stack $\frac{(2)}{L_0}$ —comprising a first phase-change type recording layer— $\frac{(6)}{(6)}$, said first recording stack $\frac{(2)}{(2)}$ being present at a position most remote from the entrance face $\frac{(16)}{(16)}$,
- [[-]] at least one further recording stack—(3)— L_a , which comprises a further phase-change type recording layer—(12), being present closer to the entrance face (16)—than the first recording stack—(2), the further recording layer having a first surface closest to the entrance face and a second surface furthest from the entrance face,

[[-]] a transparent spacer layer (9)—between the recording stacks (2, 3), said transparent spacer (9)—layer having a thickness larger than the depth of focus of the focused laser-light beam (19),

characterized in thatwherein the further recording layer (12) is substantially of an alloy defined by the formula Ge_xSb_yTe_z in atomic percentages, where 0<x<15, 50<y<80, 10<z<30 and x+y+z=100 with a thickness selected from the range of 4 to 12 nm and that at least one a first transparent crystallization promoting layer (11', 13') having a thickness smaller than 5 nm is present in contact with the first surface of the further recording layer (12) and a second transparent crystallization promoting layer having a thickness smaller than 5 nm is present in contact with the second surface of the further recording layer.

2. (Currently amended) An The optical storage medium (20) as claimed in claim 1, wherein the <u>first and second</u> transparent crystallization promoting <u>layer (11', 13') mainlylayers</u> comprises a material selected from the group of nitrides, oxides of Si, Al and Hf.

- 3. (Currently amended) An The optical storage medium (20) as claimed in claim 2, wherein the first and second transparent crystallization promoting layer (11', 13') mainly comprises a material selected from the group of nitrides of Al and nitrides of Si layers comprise $\mathrm{Si}_3\mathrm{N}_4$.
- 4. (Currently amended) An The optical storage medium (20) as claimed in claim 2, wherein the further recording layer (12) has a thickness selected from the range of 4 to 8 nm.
- 5. (Currently amended) An The optical storage medium (20)—as claimed claim 1, wherein the alloy has a composition defined by the formula $Ge_xSb_yTe_z$ in atomic percentages, where 5<x<8, 70<y<80, 15<z<20 and x+y+z=100.
- 6. (Currently amended) An The optical storage medium (20) as claimed in any one of claims lclaim 1, wherein a metal reflective layer—(14), semi-transparent for the radiation beam—(19), is present in the further recording stack—(3).

- 7. (Currently amended) An The optical storage medium (20) as claimed in claims 6, wherein the metal reflective layer (14) mainly comprises the element Cu.
- 8. (Currently amended) Use of an optical storage medium (20)—as claimed in claim 1, for high speed recording with a recording speed higher than 12 m/s.
- 9. (New) The optical storage medium as claimed in claim 1, wherein the first recording stack and the further recording stack have the same composition.
- 10. (New) The optical storage medium as claimed in claim 1, wherein the first recording stack and the further recording stack have the composition $Ge_7Sb_{76.4}Te_{16.6}$.
- 11. (New) The optical storage medium as claimed in claim 1, the first recording layer having a first surface closest to the entrance face and a second surface furthest from the entrance face, the optical storage medium comprising:

- a third transparent crystallization promoting layer in contact with the first surface of the first recording layer, and
- a fourth transparent crystallization promoting layer in contact with the second surface of the first recording layer.
- 12. (New) A multi-stack optical data storage medium for rewritable recording using a focused radiation beam entering through an entrance face of the medium during recording, comprising:
 - a substrate with deposited on a side thereof:
- a first recording stack comprising a first phase-change type recording layer, said first recording stack being present at a position most remote from the entrance face,
- at least one further recording stack, which comprises a further phase-change type recording layer, being present closer to the entrance face than the first recording stack,
- a transparent spacer layer between the recording stacks, said transparent spacer layer having a thickness larger than the depth of focus of the focused laser-light beam,

wherein the further recording layer is substantially of an alloy defined by the formula $Ge_xSb_yTe_z$ in atomic percentages, where 0< x<15, 50< y<80, 10< z<30 and x+y+z=100 and at least one transparent

crystallization promoting layer is present in contact with the further recording layer, wherein the first recording layer has a composition $Ge_7Sb_{76.4}Te_{16.6}$.

- 13. (New) The optical storage medium as claimed in claim 12, wherein the first recording stack and the further recording stack have the same atomic percentages of compounds.
- 14. (New) The optical storage medium as claimed in claim 12, wherein the first recording stack and the further recording stack have the same composition.
- 15. (New) The optical storage medium as claimed in claim 12, wherein the at least one transparent crystallization promoting layer comprises a first and second transparent crystallization promoting layer, wherein the further recording layer comprises a first surface closest to the entrance face and a second surface furthest from the entrance face, wherein the first transparent crystallization promoting layer is present in contact with the first surface of the further recording layer and the second

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transparent crystallization promoting layer is present in contact with the second surface of the further recording layer.

- 16. (New) The optical storage medium as claimed in claim 15, the first recording layer comprising a first surface closest to the entrance face and a second surface furthest from the entrance face, the optical storage medium comprising:
- a third transparent crystallization promoting layer in contact with the first surface of the first recording layer, and
- a fourth transparent crystallization promoting layer in contact with the second surface of the first recording layer.